

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **Facility Equipment and Requirements (Section D)**

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Construct and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

## FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING

### PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

Application number	Permit to Operate number	Equipment description
167960	D02069	OVEN, BAKING
167961	D01632	OVEN, BAKING
169017	D01628	OVEN, DRYING
220805	D20227	OVEN, DRYING
236628	D33361	SPRAY BOOTH PAINT AND SOLVENT
343359	F47657	OVEN, DRYING
343360	F47658	OVEN, DRYING
418872	F64040	SPRAY BOOTH PAINT AND SOLVENT
419001	F64046	SPRAY BOOTH PAINT AND SOLVENT
419000	F64044	SPRAY BOOTH PAINT AND SOLVENT
347714	F50023	SCRUBBER, OTHER VENTING S.S.
375276	F50021	TANK, CHROMIC ACID – ANNOZING
375668	F43880	AIR FILTER CUSTOM
376829	F47662	SPRAY BOOTH PAINT AND SOLVENT
376830	F47663	SPRAY BOOTH PAINT AND SOLVENT
376831	F47664	SPRAY BOOTH PAINT AND SOLVENT
376832	F47665	SPRAY BOOTH PAINT AND SOLVENT
377773	F50024	TANK, SURFACE PREPARATION - OTHER ACIDS
377774	F54510	ABRASIVE BLASTING (CABINET/MACHINE/ROOM)
377775	F54508	ABRASIVE BLASTING (CABINET/MACHINE/ROOM)
377777	F54511	BAGHOUSE, AMBIENT TEMP (>500 SQ FT)
377778	F50028	TANK, SURFACE PREPARATION - OTHER ACIDS
377779	F50027	TANK, SURFACE PREPARATION - OTHER ACIDS
380559	F54509	ABRASIVE BLASTING (CABINET/MACHINE/ROOM)
388830	F45325	I C E (50 – 500 HP) EM ELEC GEN-DIESEL
417562	F75180	I C E (50 – 500 HP) ELEC GEN-NAT GAS
454985		TANK, SURFACE PREPARATION - OTHER ACIDS
500682	GXXXXX	TITANIUM ANODIZING LINE

**NOTE:** EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **FACILITY WIDE CONDITION(S)**

**Condition(s):**

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:
  - A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGLEMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
  - B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION.  
[RULE 401]
2. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUND (VOC) EMISSIONS FROM THIS FACILITY SHALL NOT EXCEED 143 POUNDS IN ANY ONE DAY.  
[RULE 1303(b)(2)-OFFSET]
3. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS FACILITY TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). THE RECORDS SHALL ALSO INCLUDE ALL PROCEDURES THAT ARE USED TO DETERMINE VOC EMISSIONS FROM COMBUSTION OF NATURAL GAS. ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 109, 1303(b)(2)-OFFSET]
4. MATERIAL SAFETY DATA SHEETS FOR ALL COATINGS AND SOLVENTS USED AT THIS FACILITY SHALL BE KEPT CURRENT AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 109, 1303(b)(2)-OFFSET]
5. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT.  
[RULE 431.2]
6. AFTER JUNE 1, 2004, THE OPERATOR SHALL NOT PURCHASE ANY DIESEL FUEL UNLESS THE FUEL IS LOW SULFUR DIESEL FOR WHICH THE SULFUR CONTENT SHALL NOT EXCEED 15 PPM BY WEIGHT AS SUPPLIED BY THE SUPPLIER  
[RULE 431.2]

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. D02069  
A/N 167960**

#### **Equipment Description:**

OVEN, BARON, MODEL NO. EF445; 6'-1" W. X 5'-7" L. X 7'-2" H., 18 KVA ELECTRICALLY HEATED, WITH ONE 1-H.P. EXHAUST BLOWER.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS OVEN SHALL NOT BE OPERATED AT TEMPERATURE ABOVE 250 DEGREES F.  
[RULE 401]

#### **Periodic Monitoring:**

4. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE READING DEVICE TO ACCURATELY INDICATE THE TEMPERATURE OF THE OVEN. THE OPERATOR SHALL ALSO DETERMINE AND RECORD THE TEMPERATURE ONCE EVERY DAY.  
[RULE 3004 (a)(4)]

#### **Emissions And Requirements:**

5. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:  
  
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. D01632  
A/N 167961**

#### **Equipment Description:**

OVEN, BROWNING, MODEL 1278; 8'-11" W. X 15'-4" L. X 7'-11" H., 69 KW ELECTRICALLY HEATED, WITH ONE 5 HP CIRCULATORY FAN.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS OVEN SHALL NOT BE OPERATED AT TEMPERATURE ABOVE 250 DEGREES F.  
[RULE 401]

#### **Periodic Monitoring:**

4. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE READING DEVICE TO ACCURATELY INDICATE THE TEMPERATURE OF THE OVEN. THE OPERATOR SHALL ALSO DETERMINE AND RECORD THE TEMPERATURE ONCE EVERY DAY.  
[RULE 3004 (a)(4)]

#### **Emissions And Requirements:**

5. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. D01628  
A/N 169017**

#### **Equipment Description:**

OVEN, 8'-0" W. X 20'-0" L. X 8'-0" H., 600,000 BTU PER HOUR, NATURAL GAS FIRED, WITH ONE 2 HP CIRCULATION FAN.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS OVEN SHALL NOT BE OPERATED AT TEMPERATURE ABOVE 250 DEGREES F.  
[RULE 401]

#### **Periodic Monitoring:**

4. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE READING DEVICE TO ACCURATELY INDICATE THE TEMPERATURE OF THE OVEN. THE OPERATOR SHALL ALSO DETERMINE AND RECORD THE TEMPERATURE ONCE EVERY DAY.  
[RULE 3004 (a)(4)]

#### **Emissions And Requirements:**

5. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2000 PPM, RULE 407  
PM: 0.1 gr/scf, RULE 409  
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. D20227  
A/N 220805**

#### **Equipment Description:**

OVEN, 3'-0" W. X 6'-1" L. X 6'-1" H., 30 KW ELECTRICALLY HEATED, WITH TWO 1/3 HP CIRCULATING FANS.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS OVEN SHALL NOT BE OPERATED AT TEMPERATURE ABOVE 300 DEGREES F.  
[RULE 401]

#### **Periodic Monitoring:**

4. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE READING DEVICE TO ACCURATELY INDICATE THE TEMPERATURE OF THE OVEN. THE OPERATOR SHALL ALSO DETERMINE AND RECORD THE TEMPERATURE ONCE EVERY DAY.  
[RULE 3004 (a)(4)]

#### **Emissions And Requirements:**

5. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. D33361  
A/N 236628**

#### **Equipment Description:**

SPRAY BOOTH, BLEEKER, FLOOR TYPE, MODEL F-12-7; 12'-0" W. X 11'-0" L. X 7'-0" H., WITH TWENTY-EIGHT 20" X 20" EXHAUST FILTERS AND ONE 2 HP EXHAUST FAN.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS SPRAY BOOTH SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH FILTER MEDIA AT LEAST 2 INCHES THICK.  
[RULE 1303(a)(1)-BACT]
4. A GAUGE SHALL BE INSTALLED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 0.25 INCH OF WATER.  
[RULE 1303(a)(1)-BACT]
5. THE TOTAL QUANTITY OF COATINGS AND REDUCERS USED IN THIS EQUIPMENT SHALL NOT EXCEED 6 GALLONS IN ANYONE DAY.  
[RULE 1303(b)(2)-OFFSET]

#### **Periodic Monitoring:**

6. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN, OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
  - A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA.
  - B. THE DATE, TIME, AND RESULTS OF THE INSPECTION; AND
  - C. THE DATE, TIME, AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.  
[RULE 3004(a)(4)]



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7. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.  
[RULE 3004 (a)(4)]

### **Emissions And Requirements:**

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS  
VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS  
VOC: RULE 109  
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 481

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F47657  
A/N 343359**

#### **Equipment Description:**

OVEN P1-O1, IND-PI, ELECTRIC, 13'-0" W. X 19'-0" L. X 8'-3" H., ELECTRICALLY HEATED, WITH ONE 2 HP CIRCULATION FAN.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUND EMISSIONS FROM COATINGS AND SOLVENTS APPLIED TO ARTICLES CURED IN OVENS P1-O1 AND P1-O2 SHALL NOT EXCEED 39 POUNDS PER DAY.  
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]
4. COATINGS AND SOLVENTS APPLIED TO ARTICLES CURED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, (EXCEPT FOR CHROMIUM), WITH A DATE OF LISTING OF DECEMBER 7, 1990, OR EARLIER.  
[RULE 1401]
5. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 109, 1303(b)(2)-OFFSET]

#### **Emissions And Requirements:**

6. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 109

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F47657  
A/N 343360**

#### **Equipment Description:**

OVEN P1-O2, IND-PI, ELECTRIC, 8'-6" W. X 19'-7" L. X 8'-3" H., ELECTRICALLY HEATED, WITH ONE 2 HP CIRCULATION FAN.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUND EMISSIONS FROM COATINGS AND SOLVENTS APPLIED TO ARTICLES CURED IN OVENS P1-O1 AND P1-O2 SHALL NOT EXCEED 39 POUNDS PER DAY.  
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]
4. COATINGS AND SOLVENTS APPLIED TO ARTICLES CURED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, (EXCEPT FOR CHROMIUM), WITH A DATE OF LISTING OF DECEMBER 7, 1990, OR EARLIER.  
[RULE 1401]
5. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 109, 1303(b)(2)-OFFSET]

#### **Emissions And Requirements:**

6. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 109

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F64040  
A/N 418872**

#### **Equipment Description:**

SPRAY BOOTH P1-B2, BLEEKER BROS., MODEL 53304(1812), FLOOR TYPE, 18'-0" W. X 12'-0" L. X 7'-10" H., WITH ONE BLANKET FILTER, 18'-0" L. X 8'-0" H. X 1" THICK, FORTY 20" X 20" PRE-FILTERS, FORTY 20" W. X 20" L. X 10.5" D. BAG-TYPE FILTERS, TWENTY FOUR 24" X 24" X 11.5" HEPA FILTERS, AND ONE 5 HP EXHAUST FAN.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS SPRAY BOOTH SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH THE THREE STAGE FILTER MEDIA. WHEN COATINGS THAT CONTAIN CHROMIUM COMPOUNDS ARE SPRAYED, ALL EXHAUST AIR SHALL PASS THROUGH HEPA-RATED FILTERS.  
[RULE 1303(a)(1)-BACT]
4. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE PRIMARY EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.0 INCHES OF WATER.  
[RULE 1303(a)(1)-BACT]
5. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 2.0 INCHES OF WATER.  
[RULE 1303(a)(1)-BACT]
6. THE TOTAL QUANTITY OF VOC EMISSIONS FROM SPRAY BOOTHS P1-B2, P1-B3, AND P1-B4 SHALL NOT EXCEED 39 POUNDS PER DAY.  
[RULE 1303(a)(1)-BACT]

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7. THE TOTAL QUANTITY OF HEXAVALENT CHROMIUM THAT IS CONTAINED IN COATINGS SPRAYED IN THIS EQUIPMENT SHALL NOT EXCEED 558 POUNDS PER YEAR. TO DEMONSTRATE COMPLIANCE WITH THIS CONDITION, THE OPERATOR SHALL DETERMINE THE AMOUNT OF HEXAVALENT CHROMIUM AS FOLLOWS:  
(COATING USAGE) X (COATING DENSITY) X (WEIGHT PERCENT OF CHROMIUM COMPOUNDS) X (RATIO OF HEXAVALENT CHROMIUM MOLECULAR WEIGHT TO CHROMIUM COMPOUND MOLECULAR WEIGHT)  
[RULE 1401]
8. THE HEPA FILTERS USED IN THIS EQUIPMENT SHALL BE INDIVIDUALLY DOP TESTED WITH 0.3 MICRON PARTICLES AND CERTIFIED TO HAVE AN EFFICIENCY OF NOT LESS THAN 99.999%.  
[RULE 1401]
9. COATINGS AND SOLVENTS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY CARCINOGENIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, (EXCEPT FOR CHROMIUM AND CHROMIUM COMPOUNDS), WITH A DATE OF LISTING OF DECEMBER 7, 1990, OR EARLIER.  
[RULE 1401]
10. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THE SPRAY BOOTHS DESIGNATED AS P1-B2, P1-B3, AND P1-B4, TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 109, 1303(b)(2)-OFFSET]
11. THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR EACH COATING THAT CONTAINS CHROMIUM COMPOUNDS TO VERIFY THE DAILY USAGE IN GALLONS, THE DENSITY OF THE COATING IN POUNDS PER GALLON, THE WEIGHT PERCENT OF CHROMIUM COMPOUNDS, AND THE MOLECULAR WEIGHT OF THE CHROMIUM COMPOUND. THESE RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 109, 1401]

### **Periodic Monitoring:**

12. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN, OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
  - A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA.
  - B. THE DATE, TIME, AND RESULTS OF THE INSPECTION; AND
  - C. THE DATE, TIME, AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.

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[RULE 3004(a)(4)]

13. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.  
[RULE 3004 (a)(4)]

### **Emissions and Requirements:**

14. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS  
VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS  
VOC: RULE 109  
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 481  
CR<sup>+6</sup>: RULE 1469.1

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F64046  
A/N 419001**

#### **Equipment Description:**

SPRAY BOOTH P1-B3, BLEEKER BROS., MODEL 53304(1812), FLOOR TYPE, 18'-0" W. X 12'-0" L. X 7'-10" H., WITH ONE BLANKET FILTER, 18'-0" L. X 8'-0" H. X 1" THICK, FORTY 20" X 20" PRE-FILTERS, FORTY 20" W. X 20" L. X 10.5" D. BAG-TYPE FILTERS, TWENTY FOUR 24" X 24" X 11.5" HEPA FILTERS, AND ONE 5 HP EXHAUST FAN.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS SPRAY BOOTH SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH THE THREE STAGE FILTER MEDIA. WHEN COATINGS THAT CONTAIN CHROMIUM COMPOUNDS ARE SPRAYED, ALL EXHAUST AIR SHALL PASS THROUGH HEPA-RATED FILTERS.  
[RULE 1303(a)(1)-BACT]
4. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE PRIMARY EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.0 INCHES OF WATER.  
[RULE 1303(a)(1)-BACT]
5. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 2.0 INCHES OF WATER.  
[RULE 1303(a)(1)-BACT]
6. THE TOTAL QUANTITY OF VOC EMISSIONS FROM SPRAY BOOTHS P1-B2, P1-B3, AND P1-B4 SHALL NOT EXCEED 39 POUNDS PER DAY.  
[RULE 1303(a)(1)-BACT]

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

7. THE TOTAL QUANTITY OF HEXAVALENT CHROMIUM THAT IS CONTAINED IN COATINGS SPRAYED IN THIS EQUIPMENT SHALL NOT EXCEED 558 POUNDS PER YEAR. TO DEMONSTRATE COMPLIANCE WITH THIS CONDITION, THE OPERATOR SHALL DETERMINE THE AMOUNT OF HEXAVALENT CHROMIUM AS FOLLOWS:  
(COATING USAGE) X (COATING DENSITY) X (WEIGHT PERCENT OF CHROMIUM COMPOUNDS) X (RATIO OF HEXAVALENT CHROMIUM MOLECULAR WEIGHT TO CHROMIUM COMPOUND MOLECULAR WEIGHT)  
[RULE 1401]
8. THE HEPA FILTERS USED IN THIS EQUIPMENT SHALL BE INDIVIDUALLY DOP TESTED WITH 0.3 MICRON PARTICLES AND CERTIFIED TO HAVE AN EFFICIENCY OF NOT LESS THAN 99.999%.  
[RULE 1401]
9. COATINGS AND SOLVENTS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY CARCINOGENIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, (EXCEPT FOR CHROMIUM AND CHROMIUM COMPOUNDS), WITH A DATE OF LISTING OF DECEMBER 7, 1990, OR EARLIER.  
[RULE 1401]
10. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THE SPRAY BOOTHS DESIGNATED AS P1-B2, P1-B3, AND P1-B4, TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 109, 1303(b)(2)-OFFSET]
11. THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR EACH COATING THAT CONTAINS CHROMIUM COMPOUNDS TO VERIFY THE DAILY USAGE IN GALLONS, THE DENSITY OF THE COATING IN POUNDS PER GALLON, THE WEIGHT PERCENT OF CHROMIUM COMPOUNDS, AND THE MOLECULAR WEIGHT OF THE CHROMIUM COMPOUND. THESE RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 109, 1401]

### **Periodic Monitoring:**

12. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN, OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
  - A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA.
  - B. THE DATE, TIME, AND RESULTS OF THE INSPECTION; AND
  - C. THE DATE, TIME, AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.



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[RULE 3004(a)(4)]

13. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.  
[RULE 3004 (a)(4)]

### **Emissions and Requirements:**

14. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS
  - VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
  - VOC: RULE 109
  - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
  - PM: RULE 481
  - CR<sup>+6</sup>: RULE 1469.1

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F64044  
A/N 419000**

#### **Equipment Description:**

SPRAY BOOTH P1-B4, BLEEKER BROS., MODEL 53304(1812), FLOOR TYPE, 18'-0" W. X 12'-0" L. X 7'-10" H., WITH ONE BLANKET FILTER, 18'-0" L. X 8'-0" H. X 1" THICK, FORTY 20" X 20" PRE-FILTERS, FORTY 20" W. X 20" L. X 10.5" D. BAG-TYPE FILTERS, TWENTY FOUR 24" X 24" X 11.5" HEPA FILTERS, AND ONE 5 HP EXHAUST FAN.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS SPRAY BOOTH SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH THE THREE STAGE FILTER MEDIA. WHEN COATINGS THAT CONTAIN CHROMIUM COMPOUNDS ARE SPRAYED, ALL EXHAUST AIR SHALL PASS THROUGH HEPA-RATED FILTERS.  
[RULE 1303(a)(1)-BACT]
4. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE PRIMARY EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.0 INCHES OF WATER.  
[RULE 1303(a)(1)-BACT]
5. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 2.0 INCHES OF WATER.  
[RULE 1303(a)(1)-BACT]
6. THE TOTAL QUANTITY OF VOC EMISSIONS FROM SPRAY BOOTHS P1-B2, P1-B3, AND P1-B4 SHALL NOT EXCEED 39 POUNDS PER DAY.  
[RULE 1303(a)(1)-BACT]

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

7. THE TOTAL QUANTITY OF HEXAVALENT CHROMIUM THAT IS CONTAINED IN COATINGS SPRAYED IN THIS EQUIPMENT SHALL NOT EXCEED 558 POUNDS PER YEAR. TO DEMONSTRATE COMPLIANCE WITH THIS CONDITION, THE OPERATOR SHALL DETERMINE THE AMOUNT OF HEXAVALENT CHROMIUM AS FOLLOWS:  
(COATING USAGE) X (COATING DENSITY) X (WEIGHT PERCENT OF CHROMIUM COMPOUNDS) X (RATIO OF HEXAVALENT CHROMIUM MOLECULAR WEIGHT TO CHROMIUM COMPOUND MOLECULAR WEIGHT)  
[RULE 1401]
8. THE HEPA FILTERS USED IN THIS EQUIPMENT SHALL BE INDIVIDUALLY DOP TESTED WITH 0.3 MICRON PARTICLES AND CERTIFIED TO HAVE AN EFFICIENCY OF NOT LESS THAN 99.999%.  
[RULE 1401]
9. COATINGS AND SOLVENTS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY CARCINOGENIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, (EXCEPT FOR CHROMIUM AND CHROMIUM COMPOUNDS), WITH A DATE OF LISTING OF DECEMBER 7, 1990, OR EARLIER.  
[RULE 1401]
10. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THE SPRAY BOOTHS DESIGNATED AS P1-B2, P1-B3, AND P1-B4, TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS). ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 109, 1303(b)(2)-OFFSET]
11. THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR EACH COATING THAT CONTAINS CHROMIUM COMPOUNDS TO VERIFY THE DAILY USAGE IN GALLONS, THE DENSITY OF THE COATING IN POUNDS PER GALLON, THE WEIGHT PERCENT OF CHROMIUM COMPOUNDS, AND THE MOLECULAR WEIGHT OF THE CHROMIUM COMPOUND. THESE RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULES 109, 1401]

### **Periodic Monitoring:**

12. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN, OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
  - A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA.
  - B. THE DATE, TIME, AND RESULTS OF THE INSPECTION; AND
  - C. THE DATE, TIME, AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.

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[RULE 3004(a)(4)]

13. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.  
[RULE 3004 (a)(4)]

### **Emissions and Requirements:**

14. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS  
VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS  
VOC: RULE 109  
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 481  
CR<sup>+6</sup>: RULE 1469.1

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F50023  
A/N 347714**

#### **Equipment Description:**

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. SCRUBBER, MANUFACTURERS NETWORK, PACKED COLUMN TYPE, MODEL NO. 7500, 4'-1" W. X 11'-4 1/2" L. X 5'-4 1/2" H., WITH LANDTEC 3.5" POLYPROPYLENE, ONE 30" DIA. X 36" H. MIST ELIMINATOR WITH 1" JAEGER TRIPACKS, 5'-6 1/2" W. X 5'-6 1/2" L. X 3'-0" H. BASE RECIRCULATING TANK, AND ONE 1½ H.P. RECIRCULATION PUMP.
2. EXHAUST SYSTEM EQUIPPED WITH A 5-HP BLOWER VENTING TANK 55A OF THE CHROMIC ACID ANODIZING LINE.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. AN IDENTIFICATION TAG OR NAMEPLATE SHALL BE DISPLAYED ON THE EQUIPMENT TO SHOW MANUFACTURER AND MODEL NUMBER. THE TAG(S) OR PLATE(S) SHALL BE ISSUED BY THE MANUFACTURER AND SHALL BE ADHERED TO THE EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.  
[RULE 1401]
4. THE EQUIPMENT SHALL BE IN FULL OPERATION WHENEVER THE TANK VENTED TO IT IS IN OPERATION.  
[RULE 1303(a)(1)-BACT, 1401]
5. THE STATIC PRESSURE DIFFERENTIAL ACROSS THE SCRUBBER SHALL NOT EXCEED 1.5 INCHES OF WATER COLUMN, DURING OPERATION. THE OPERATOR SHALL KEEP WEEKLY RECORDS OF THE STATIC PRESSURE DIFFERENTIAL, IN INCHES OF WATER COLUMN, ACROSS THE SCRUBBER. THE ABOVE LIMIT MAY BE ADJUSTED BASED ON THE PRESSURE DROP DATA RECORDED DURING OPERATION OF THE SCRUBBER.  
[RULE 1303(a)(1)-BACT, 1401]
6. A MECHANICAL GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE SCRUBBER. THIS SCALE

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

SHALL NOT EXCEED FOUR TIMES THE LIMIT SPECIFIED IN CONDITION NO. 5.

[RULE 1303(a)(1)-BACT, 1401]

7. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO MEASURE THE RECIRCULATION LIQUID FLOW RATE IN GALLONS PER MINUTE.  
[RULE 1303(a)(1)-BACT, 1401]
8. THE RECIRCULATION FLOW RATE SHALL BE MAINTAINED AT A MINIMUM OF 10 GALLONS PER MINUTE.  
[RULE 1303(a)(1)-BACT, 1401]
9. THE PH OF THE RECIRCULATING SOLUTION SHALL BE MEASURED AND RECORDED DAILY AND SHALL NOT BE LESS THAN 4.0.  
[RULE 1303(a)(1)-BACT, 1401]
10. THE PH MEASURING DEVICE SHALL BE CALIBRATED AT LEAST ONCE PER MONTH, AND MORE OFTEN IF NECESSARY, TO ENSURE THE ACCURACY OF THE INDICATOR READINGS.  
[RULE 1303(a)(1)-BACT, 1401]
11. THE OWNER/OPERATOR SHALL COMPLY WITH THE INSPECTION AND MAINTENANCE REQUIREMENTS FOR THE PACKED BED SCRUBBER LISTED BELOW:
  - A) QUARTERLY VISUAL INSPECTION OF THE DEVICE TO ENSURE THERE IS PROPER DRAINAGE, NO UNUSUAL BUILDUP ON THE PACKED BEDS, AND NO EVIDENCE OF CHEMICAL ATTACK THAT AFFECTS THE STRUCTURAL INTEGRITY OF THE DEVICE.
  - B) QUARTERLY VISUAL INSPECTION OF THE DUCTWORK FROM THE TANK TO THE CONTROL DEVICE TO ENSURE THERE ARE NO LEAKS.  
[RULE 1303(a)(1)-BACT, 1401]
12. THE OWNER/OPERATOR SHALL MAINTAIN INSPECTION AND MAINTENANCE RECORDS FOR THE PACKED BED SCRUBBER AND MONITORING EQUIPMENT TO DOCUMENT COMPLIANCE WITH THE INSPECTION AND MAINTENANCE REQUIREMENTS OF THIS PERMIT. THE RECORD SHALL IDENTIFY:
  - A) THE DEVICE INSPECTED,
  - B) THE DATE AND TIME OF INSPECTION,
  - C) THE WORKING CONDITION OF THE DEVICE DURING THE INSPECTION,
  - D) ANY MAINTENANCE ACTIVITIES PERFORMED ON THE PACKED BED SCRUBBER
  - E) ANY ACTIONS TAKEN TO CORRECT DEFICIENCIES FOUND DURING THE INSPECTION.
  - F) THE DATES OF CALIBRATIONS OF THE PH MEASURING DEVICE.
  - G) AN ITEMIZED LIST OF ALL CHEMICALS USED IN THE SCRUBBER.

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H) MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL CHEMICALS USED IN THE SCRUBBER.

[RULE 1303(a)(1)-BACT, 1401]

13. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED AT THE FACILITY FOR FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.  
[RULE 1303(a)(1)-BACT, 1401]

### **Periodic Monitoring:**

14. THE OPERATOR SHALL DETERMINE AND RECORD THE FLOW RATE OF THE SCRUBBING SOLUTION ONCE EVERY DAY.  
[RULE 3004 (a)(4)]

### **Emissions and Requirements:**

15. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

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### **PERMIT TO OPERATE**

**Permit No. F50021  
A/N 375276**

#### **Equipment Description:**

##### **CHROMIC ACID ANODIZING LINE CONSISTING OF:**

1. TANK NO. 55A, [NITRIC ACID/HYDROFLUORIC ACID] ETCH TANK, NITRIC AND HYDROFLOURIC ACIDS, 2'-3" W. X 15'-10" L. X 3'-7" H., UNHEATED.
2. TANK NO. 16C, TRI-ACID ETCH TANK, NITRIC, CHROMIC AND HYDROFLUORIC ACIDS, 1'-10" W. X 16'-0" L. X 4'-0" H., UNHEATED.
3. TANK NO. 51B2, PASSIVATE TYPE VI TANK, NITRIC ACID, 1'-8" W. X 16'-0" L. X 4'-0" H., UNHEATED.
4. TANK NO. 16A, ALKALINE ETCH TANK, SODIUM HYDROXIDE, 2'-0" W. X 16'-0" L. X 4'-0" H., STEAM HEATED.
5. TANK NO. 4, CHROMATE DEOXIDIZING TANK, NITRIC ACID, 2'-0" W. X 16'-0" L. X 4'-0" H., UNHEATED.
6. TANK NO. 6, CHROMIC ACID ANODIZING TANK, CHROMIC ACID, 3'-0" W. X 18'-0" L. X 3'-4" H., STEAM HEATED, WITH A 50 VOLT, 2,000 AMPERE RECTIFIER.
7. TANK NO. 11D, DILUTE CHROMATE SEALER TANK, SODIUM DICHROMATE AND CHROMIC ACID, 1'-10" W. X 16'-0" L. X 4'-0" H., STEAM HEATED.
8. TANK NO. 2, DEGREASING TANK, ALKALINE SOLUTION, 1'-8" W. X 16'-0" L. X 4'-0" H., STEAM HEATED.
9. TANK NO. 2C, ALKALINE CLEANER TANK, SODIUM METASILICATE, 1'-5" W. X 15'-6" L. X 4'-0" H., STEAM HEATED.
10. TANK NO. 51-2, PASSIVATE TYPE VIII, NITRIC ACID, 1'-8" W. X 16'-0" L. X 4'-0" H., STEAM HEATED.
11. ASSOCIATED RINSE TANKS.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]



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2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. NITRIC/HYDROFLUORIC ACID ETCH TANK NO. 55A AND CHROMIC ACID ANODIZING TANK NO. 6 SHALL NOT BE OPERATED UNLESS THEY ARE VENTED TO AN AIR POLLUTION CONTROL SYSTEM THAT HAS BEEN ISSUED A VALID PERMIT TO OPERATE BY THE DISTRICT.  
[RULE 1303(a)(1)-BACT, 1401, 1469]
4. THE CONCENTRATION OF CHEMICALS USED IN THE PROCESS TANKS SHALL NOT EXCEED THE FOLLOWING:

TANK NO.	CHEMICAL	WEIGHT PERCENT
-----	-----	-----
2	BRULIN	34
2C	SODIUM METASILICATE	8
55A	NITRIC ACID	59.5
55A	HYDROFLUORIC ACID	5.5
16C	NITRIC ACID	10
16C	CHROMIC ACID	5
16C	HYDROFLUORIC ACID	1
51B2	NITRIC ACID	55.5
51-2	NITRIC ACID	65
16A	SODIUM HYDROXIDE	8.5
4	NITRIC ACID	21
6	CHROMIC ACID	5.2
11D	SODIUM CHROMATE	1
11D	CHROMIC ACID	1

- [RULE 1401, 1469]
5. THE OWNER/OPERATOR SHALL RECORD ADDITION OF CHEMICALS TO THE TANKS PURSUANT TO CONDITION NO. 4.  
[RULE 1401, 1469]
6. TANKS CONTAINING NITRIC ACID SHALL BE COVERED WHEN NOT IN USE TO ENSURE THAT THE SURFACE OF THE LIQUID IS NOT DIRECTLY EXPOSED TO THE ATMOSPHERE.  
[RULE 1401, 1469]
7. TANKS CONTAINING NITRIC ACID SHALL COMPLY WITH THE VISIBLE EMISSION STANDARDS OF DISTRICT RULE 401.  
[RULE 1469, 401]
8. TANK NOS. 55A, 16C, 51B2, AND 4 SHALL NOT BE HEATED.  
[RULE 1401, 1469]
9. TANK NOS. 16C, 4, 6, AND 11D SHALL NOT BE SPARGED.  
[RULE 1401, 1469]

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10. TEMPERATURE GAUGES SHALL BE INSTALLED AND MAINTAINED ON THE HEATED TANKS TO MEASURE AND RECORD THE TEMPERATURE OF THE SOLUTIONS DURING OPERATION.  
 [RULE 1401, 1469]

11. THE TEMPERATURE OF THE SOLUTIONS IN THE FOLLOWING TANKS SHALL NOT EXCEED THE FOLLOWING:

TANK NO. -----	TEMPERATURE IN DEGREES FAHRENHEIT -----
2	175
2C	180
51-2	130
16A	160
6	98
11D	205

[RULE 1401, 1469]

12. CHROMIC ACID ANODIZING TANK NO. 6 SHALL BE EQUIPPED WITH A CONTINUOUS RECORDING, NON-RESETTABLE, TOTALIZING AMPERE-HOUR METER THAT OPERATES ON THE ELECTRICAL POWER LINES CONNECTED TO EACH TANK. A SEPARATE METER SHALL BE HARD-WIRED FOR THE RECTIFIER.

[RULE 1401, 1469]

13. THE TOTAL AMPERE-HOURS OF PLATING CURRENT APPLIED TO THE CHROMIC ACID ANODIZING TANK NO. 6 SHALL NOT EXCEED 9,000,000 AMPERE-HOURS IN ANY ONE CALENDAR YEAR.

[RULE 1401, 1469]

14. THE OWNER/OPERATOR SHALL RECORD THE CUMULATIVE RECTIFIER USAGE OF THE CHROMIC ACID ANODIZING TANK NO. 6 USED EACH MONTH OF THE REPORTING PERIOD, AND THE TOTAL CAPACITY USED FOR THE REPORTING PERIOD.

[RULE 1401, 1469]

15. THE OWNER/OPERATOR SHALL MAINTAIN ALL DOCUMENTATION SUPPORTING THE NOTIFICATIONS AND REPORTS REQUIRED BY RULE 1469.

[RULE 1469]

16. IN THE EVENT OF VISIBLE NOX EMISSIONS FROM THE TANKS CONTAINING NITRIC ACID, AN AIR POLLUTION CONTROL SYSTEM SHALL BE INSTALLED TO SUFFICIENTLY REDUCE THE EMISSIONS. THE AIR POLLUTION CONTROL SYSTEM CAN INCLUDE, BUT NOT BE LIMITED TO, NOX REDUCING AGENTS AND A NOX SCRUBBER.

[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

17. THE OWNER/OPERATOR SHALL PREPARE AN OPERATION AND MAINTENANCE (O&M) PLAN. WHICH SHALL INCORPORATE THE INSPECTION AND MAINTENANCE REQUIREMENTS IDENTIFIED IN THIS PERMIT AND SHALL INCLUDE THE FOLLOWING ELEMENTS:

- A) STANDARDIZED CHECKLIST TO DOCUMENT THE O&M OF THE SOURCE, THE ADD-ON AIR POLLUTION CONTROL DEVICE, AND THE PROCESS AND CONTROL SYSTEM MONITORING EQUIPMENT, AND

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

- B) THE PROCEDURES TO BE FOLLOWED TO ENSURE THAT EQUIPMENT IS PROPERLY MAINTAINED.  
[RULE 1469]
18. THE OWNER/OPERATOR SHALL KEEP THE WRITTEN O&M PLAN ON RECORD, AFTER IT IS DEVELOPED, TO BE MADE AVAILABLE FOR INSPECTION UPON REQUEST BY AQMD PERSONNEL.  
[RULE 1469]
19. ANY CHANGES MADE TO THE O&M PLAN SHALL BE DOCUMENTED IN AN ADDENDUM TO THE PLAN AND SHALL BE SIGNED AND DATED BY THE OWNER/OPERATOR OR APPROPRIATE DESIGNEE.  
[RULE1469]
20. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED AT THE FACILITY FOR FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.  
[RULE 1401, 1469]

### **Emissions And Requirements:**

21. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
CR<sup>+6</sup>: RULE 1469, # 1, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F43880  
A/N 375668**

#### **Equipment Description:**

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. MESH PAD MIST ELIMINATOR, 2'-0" W. X 2'-0" L. X 0'-1" THICK.
2. TWO PRE-FILTERS, AND TWO HEPA FILTERS, MICROGUARD 2000, MODEL NO. MC2000-601, EACH 2'-0" W. X 2'-0" L. X 0'-11 ½" THICK.
3. ONE HEPA FILTER, MICROGUARD 2000, MODEL NO. MC2000-601, 2'-0" W. X 2'-0" L. X 0'-11 ½" THICK.
4. EXHAUST SYSTEM, WITH A 0.5 H.P. FAN VENTING A CHROMIC ACID ANODIZING TANK.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL BE IN FULL USE WHENEVER THE CHROMIC ACID ANODIZING TANK VENTED TO IT IS IN OPERATION.  
[RULE 1303(a)(1)-BACT, 1401, 1469]
4. DURING THE OPERATION OF THE ABOVE TANKS, THE HEXAVALENT CHROMIUM EMISSIONS DISCHARGED TO THE ATMOSPHERE SHALL NOT EXCEED 0.01 MILLIGRAM PER DRY STANDARD CUBIC METER OF AIR (MG/DSCM).  
[RULE 1469]
5. A MECHANICAL GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE MESH PAD OF THE MESH PAD MIST ELIMINATOR. THE SCALE ON THE GAUGE SHALL NOT EXCEED 4 INCHES OF WATER COLUMN.  
[RULE 1303(a)(1)-BACT, 1401, 1469]

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6. THE TOTAL STATIC PRESSURE DIFFERENTIAL ACROSS THE MESH PAD MIST ELIMINATOR SHALL REMAIN BETWEEN 0.1 AND 1.0 INCHES OF WATER COLUMN DURING OPERATION.  
[RULE 1303(a)(1)-BACT, 1401, 1469]
7. MECHANICAL GAUGES SHALL BE INSTALLED AND MAINTAINED SO AS TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. THE SCALE SHALL NOT EXCEED FOUR TIMES THE LIMIT SPECIFIED IN CONDITION NO. 8.  
[RULE 1303(a)(1)-BACT, 1401, 1469]
8. THE TOTAL STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS SHALL REMAIN WITHIN 0.2 TO 0.8 INCH OF WATER COLUMN DURING OPERATION.  
[RULE 1303(a)(1)-BACT, 1401, 1469]
9. THE MECHANICAL GAUGES SHALL BE LOCATED SO THAT THEY CAN BE EASILY VIEWED AND ARE IN CLEAR SIGHT OF THE OPERATION OR MAINTENANCE PERSONNEL.  
[RULE 1401, 1469]
10. A WEEKLY RECORD SHALL BE KEPT AND MAINTAINED ON SITE OF THE TOTAL STATIC PRESSURE DIFFERENTIAL, IN INCHES OF WATER COLUMN, ACROSS THE MESH PAD MIST ELIMINATOR AND THE HEPA FILTERS.  
[RULE 1303(a)(1)-BACT, 1401, 1469]
11. THE OWNER/OPERATOR SHALL PREPARE AN OPERATION AND MAINTENANCE (O & M) PLAN. THE O & M PLAN SHALL INCORPORATE THE INSPECTION AND MAINTENANCE REQUIREMENTS AS IDENTIFIED IN TABLE 1 OF RULE 1469, AND SHALL INCLUDE THE FOLLOWING ELEMENTS:
  - A. A STANDARDIZED CHECKLIST TO DOCUMENT THE OPERATION AND MAINTENANCE OF THE TANKS VENTED TO THE AIR POLLUTION CONTROL SYSTEM, THE AIR POLLUTION CONTROL SYSTEM, AND THE PROCESS AND CONTROL SYSTEM MONITORING EQUIPMENT, AND
  - B. THE PROCEDURE TO BE FOLLOWED TO ENSURE THAT THE EQUIPMENT IS PROPERLY MAINTAINED. THE OWNER/OPERATOR MAY USE APPLICABLE STANDARD OPERATING PROCEDURE (SOP) MANUALS, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) PLANS, OR OTHER EXISTING PLANS, PROVIDED THE ALTERNATIVE PLANS MEET THE REQUIREMENTS OF RULE 1469.  
[RULE 1469]
12. THE SPECIFIC OPERATION AND MAINTENANCE ACTIVITIES IDENTIFIED IN THE O & M PLAN SHALL BE INSTITUTED IF THE TOTAL STATIC PRESSURE DIFFERENTIALS ACROSS THE AIR POLLUTION CONTROL SYSTEM STAGES REGARDING THE MESH PAD, THE PREFILTERS, AND THE HEPA FILTERS EXCEED THE LIMITS STATED IN THE ABOVE CONDITIONS.  
[RULE 1469]
13. THE OWNER/OPERATOR SHALL KEEP THE WRITTEN O & M PLAN ON RECORD AFTER IT IS DEVELOPED, TO BE MADE AVAILABLE FOR INSPECTION UPON DISTRICT REQUEST.  
[RULE 1469]

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

14. ANY CHANGES MADE TO THE O & M PLAN SHALL BE DOCUMENTED IN AN ADDENDUM TO THE PLAN AND SIGNED BY THE OWNER/OPERATOR OR APPROPRIATE DESIGNEE. THE OWNER/OPERATOR SHALL KEEP THE PREVIOUS VERSIONS OF THE O & M PLAN ON RECORD TO BE MADE AVAILABLE TO THE DISTRICT UPON REQUEST, FOR A PERIOD OF 5 YEARS AFTER EACH REVISION TO THE PLAN.  
[RULE 1469]
15. THE OWNER/OPERATOR SHALL ANNUALLY COMPLETE, BY FEBRUARY 1, AN ONGOING COMPLIANCE STATUS REPORT FOR THE PRECEDING CALENDAR YEAR. THE REPORT SHALL CONTAIN THE INFORMATION IDENTIFIED IN APPENDIX 3 OF RULE 1469. THE REPORT SHALL BE MADE AVAILABLE TO THE DISTRICT UPON REQUEST.  
[RULE 1469]
16. THE OWNER/OPERATOR SHALL COMPLY WITH THE INSPECTION AND MAINTENANCE REQUIREMENTS FOR THE COMPOSITE MESH PAD SYSTEM LISTED BELOW:
  - A. QUARTERLY VISUAL INSPECTION OF THE DEVICE TO ENSURE THERE IS PROPER DRAINAGE, NO UNUSUAL CHROMIC ACID BUILDUP ON THE MESH PAD, AND NO EVIDENCE OF CHEMICAL ATTACK THAT AFFECTS THE STRUCTURAL INTEGRITY OF THE DEVICE.
  - B. QUARTERLY VISUAL INSPECTION OF THE BACK PORTION OF THE MESH PAD SYSTEM CLOSEST TO THE FAN TO ENSURE THERE IS NO BREAKTHROUGH OF CHROMIC ACID MIST.
  - C. QUARTERLY VISUAL INSPECTION OF THE DUCTWORK FROM THE CHROMIC ACID TANK TO THE CONTROL DEVICE TO ENSURE THERE ARE NO LEAKS.
  - D. PERFORM WASHDOWN OF THE COMPOSITE MESH PAD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.[RULE 1469]
17. THE OWNER/OPERATOR SHALL COMPLY WITH THE INSPECTION AND MAINTENANCE REQUIREMENTS FOR THE HEPA FILTER SYSTEM LISTED BELOW:
  - A. WEEKLY INSPECTION FOR CHANGES IN PRESSURE DROP.
  - B. REPLACE THE MESH PAD, PREFILTERS AND HEPA FILTERS WHEN THEY HAVE EXCEEDED THE SPECIFIED STATIC PRESSURE DIFFERENTIAL LIMITS.[RULE 1469]
18. THE OWNER/OPERATOR SHALL MAINTAIN INSPECTION AND MAINTENANCE RECORDS FOR THE COMPOSITE MESH PAD MIST ELIMINATOR, HEPA FILTER SYSTEM, AND MONITORING EQUIPMENT TO DOCUMENT COMPLIANCE WITH THE INSPECTION AND MAINTENANCE REQUIREMENTS OF THIS PERMIT. THE RECORDS SHALL IDENTIFY:
  - A. THE DEVICE INSPECTED,
  - B. THE DATE AND TIME OF INSPECTION,

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

- C. THE WORKING CONDITION OF THE DEVICE DURING THE INSPECTION,
  - D. ANY MAINTENANCE ACTIVITIES PERFORMED ON THE MESH PAD MIST ELIMINATOR, THE HEPA FILTER SYSTEM, AND
  - E. ANY ACTIONS TAKEN TO CORRECT DEFICIENCIES FOUND DURING THE INSPECTION.  
[RULE 1469]
19. THE OWNER/OPERATOR SHALL MAINTAIN RECORDS OF EXCESS EMISSIONS INCLUDING, BUT NOT LIMITED TO, RECORDS OF ANY EXCEEDANCES OF THE EMISSION LIMITATION AND/OR MONITORING PARAMETERS REQUIREMENTS STATED IN THIS PERMIT. THE RECORDS SHALL INCLUDE THE DATE OF THE OCCURRENCE, THE DURATION, CAUSE (IF KNOWN), AND, WHERE POSSIBLE, THE MAGNITUDE OF ANY EXCESS EMISSIONS.  
[RULE 1469]
20. THE OWNER/OPERATOR SHALL REPORT EQUIPMENT BREAKDOWNS AS REQUIRED BY THE DISTRICT RULE 430.  
[RULE 1469, 430]
21. AFTER THE EFFECTIVE DATE OF RULE 1469, NO PERSON MAY CONSTRUCT OR MODIFY A SOURCE SUCH THAT IT BECOMES A SOURCE SUBJECT TO RULE 1469 WITHOUT SUBMITTING A NOTIFICATION OF CONSTRUCTION OR MODIFICATION TO THE DISTRICT AND RECEIVING APPROVAL IN ADVANCE TO CONSTRUCT OR MODIFY THE SOURCE. THE CONTENTS OF THE NOTIFICATION OF CONSTRUCTION OR MODIFICATION SHALL INCLUDE INFORMATION AS LISTED IN APPENDIX 4 OF RULE 1469.  
[RULE 1469]
22. THE OWNER/OPERATOR SHALL COMPLY WITH THE APPLICABLE INSPECTION AND MAINTENANCE REQUIREMENTS LISTED IN TABLE 1 OF RULE 1469.  
[RULE 1469]
23. THE OWNER/OPERATOR SHALL MAINTAIN MONITORING DATA RECORDS THAT ARE USED TO DEMONSTRATE COMPLIANCE WITH THE MONITORING PARAMETERS REQUIREMENTS IDENTIFIED IN THIS PERMIT, INCLUDING THE DATE AND TIME OF THE DATA COLLECTED.  
[RULE 1469]
24. THE RECORDS SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS (WITH THE LAST TWO YEARS ON SITE) AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST.  
[RULE 1401, 1469]

### **Emissions And Requirements:**

25. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
  - CR<sup>+6</sup>: RULE 1469, # 1, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F47662  
A/N 376829**

#### **Equipment Description:**

SPRAY BOOTH P2-B1, BINKS, FLOOR TYPE, 14'-0" W. X 12'-0" H. X 8'-0" L., WITH TWENTY 20" X 20" X 1" PRIMARY FILTERS, TWENTY 20" X 20" X 1" PRE-FILTERS, TWENTY 20" X 20" X 10.5" BAG-TYPE FILTERS, EIGHT 24" X 24" X 11.5" AIRGUARD HEPA FILTERS (#NC2000-500), AND ONE 3 H.P. EXHAUST FAN.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH FILTER MEDIA AS DESCRIBED ON THIS PERMIT.  
[RULE 1303(a)(1)-BACT]
4. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE PRIMARY EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.0 INCHES OF WATER.  
[RULE 1303(a)(1)-BACT]
5. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 2.0 INCHES OF WATER.  
[RULE 1303(a)(1)-BACT]
6. THE TOTAL QUANTITY OF VOC EMISSIONS FROM THIS SPRAY BOOTH SHALL NOT EXCEED 25 POUNDS PER DAY.  
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]
7. THE TOTAL QUANTITY OF CHROMIUM THAT IS CONTAINED IN COATINGS SPRAYED IN THIS EQUIPMENT SHALL NOT EXCEED 4.2 POUNDS PER YEAR.  
[RULE 1401]
8. COATINGS AND SOLVENTS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IN RULE 1401, TABLE I, (EXCEPT FOR CHROMIUM), WITH A DATE OF LISTING OF AUGUST 18, 2000, OR EARLIER.  
[RULE 1401]



## FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING

9. THE HEPA FILTERS USED IN THIS EQUIPMENT SHALL BE INDIVIDUALLY DOP (OR EQUIVALENT) TESTED WITH 0.3 MICRON PARTICLES AND CERTIFIED TO HAVE AN EFFICIENCY OF NOT LESS THAN 99.97%.  
[RULE 1303(a)(1)-BACT, 1469.1]
10. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS), AND THE CHROMIUM SPRAYED IN POUNDS. ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 109, 1303(b)(2)-OFFSET]

### Periodic Monitoring:

11. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN, OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
- A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA.
  - B. THE DATE, TIME, AND RESULTS OF THE INSPECTION; AND
  - C. THE DATE, TIME, AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
- [RULE 3004(a)(4)]
12. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.  
[RULE 3004 (a)(4)]

### Emissions and Requirements:

13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS
  - VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
  - VOC: RULE 109
  - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
  - PM: RULE 481
  - CR<sup>+6</sup>: RULE 1469.1

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F47663  
A/N 376830**

#### **Equipment Description:**

SPRAY BOOTH P2-B2, DEVILBISS, FLOOR TYPE, 20'-0" W. X 13'-6" L. X 10'-6" H., WITH ONE 20' X 10'-6" X 1" PRIMARY BLANKET-TYPE FILTER, ONE 20' X 10'-6" X 1" BLANKET-TYPE PRE-FILTER, FIFTY-FIVE 20" X 20" X 10.5" BAG-TYPE FILTERS, TWENTY-FOUR 24" X 24" X 11.5" AIRGUARD HEPA FILTERS (#NC2000-500), AND TWO 3 H.P. EXHAUST FANS.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH FILTER MEDIA AS DESCRIBED ON THIS PERMIT.  
[RULE 1303(a)(1)-BACT]
4. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE PRIMARY EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.0 INCHES OF WATER.  
[RULE 1303(a)(1)-BACT]
5. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 2.0 INCHES OF WATER.  
[RULE 1303(a)(1)-BACT]
6. THE TOTAL QUANTITY OF VOC EMISSIONS FROM THIS SPRAY BOOTH SHALL NOT EXCEED 32 POUNDS PER DAY.  
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]
7. THE HEPA FILTERS USED IN THIS EQUIPMENT SHALL BE INDIVIDUALLY DOP (OR EQUIVALENT) TESTED WITH 0.3 MICRON PARTICLES AND CERTIFIED TO HAVE AN EFFICIENCY OF NOT LESS THAN 99.97%.  
[RULE 1303(a)(1)-BACT, 1469.1]

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

8. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS), AND THE CHROMIUM SPRAYED IN POUNDS. ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 109, 1303(b)(2)-OFFSET]

### **Periodic Monitoring:**

9. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN, OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
- A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA.
  - B. THE DATE, TIME, AND RESULTS OF THE INSPECTION; AND
  - C. THE DATE, TIME, AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
- [RULE 3004(a)(4)]
10. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.  
[RULE 3004 (a)(4)]

### **Emissions and Requirements:**

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS
  - VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
  - VOC: RULE 109
  - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
  - PM: RULE 481
  - CR<sup>+6</sup>: RULE 1469.1

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F47664  
A/N 376831**

#### **Equipment Description:**

SPRAY BOOTH P3-B2, BLEEKER, FLOOR TYPE, MODEL F-12-7, 12'-0" W. X 11'-0" H. X 7'-0" L., WITH ONE 144" X 84" X 1" PRIMARY ROLL FILTER, TWENTY 20" X 20" X 1" PRE-FILTERS, TWENTY 20" X 20" X 10.5" POCKET-TYPE FILTERS, EIGHT 24" X 24" X 11.5" AIRGUARD HEPA FILTERS (#NC2000-500), AND ONE 3 H.P. EXHAUST FAN.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH FILTER MEDIA AS DESCRIBED ON THIS PERMIT.  
[RULE 1303(a)(1)-BACT]
4. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE PRIMARY EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.0 INCHES OF WATER.  
[RULE 1303(a)(1)-BACT]
5. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 2.0 INCHES OF WATER.  
[RULE 1303(a)(1)-BACT]
6. THE TOTAL QUANTITY OF VOC EMISSIONS FROM THIS SPRAY BOOTH SHALL NOT EXCEED 24 POUNDS PER DAY.  
[RULE 1303(a)(1)-BACT]
7. THE HEPA FILTERS USED IN THIS EQUIPMENT SHALL BE INDIVIDUALLY DOP (OR EQUIVALENT) TESTED WITH 0.3 MICRON PARTICLES AND CERTIFIED TO HAVE AN EFFICIENCY OF NOT LESS THAN 99.97%.  
[RULE 1303(a)(1)-BACT, 1469.1]

## FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING

8. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS), AND THE CHROMIUM SPRAYED IN POUNDS. ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 109, 1303(b)(2)-OFFSET]

### Periodic Monitoring:

9. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN, OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
- A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA.
  - B. THE DATE, TIME, AND RESULTS OF THE INSPECTION; AND
  - C. THE DATE, TIME, AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
- [RULE 3004(a)(4)]
10. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.  
[RULE 3004 (a)(4)]

### Emissions and Requirements:

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS
  - VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
  - VOC: RULE 109
  - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
  - PM: RULE 481
  - CR<sup>+6</sup>: RULE 1469.1

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F47665  
A/N 376832**

#### **Equipment Description:**

SPRAY BOOTH, BINKS P3-B1, FLOOR TYPE, MODEL PFF8-7-T, 7'-8" W. X 7'-0" H. X 8'-8" L., WITH SIXTEEN 20" X 20" X 1" PRIMARY FILTERS, SIXTEEN 20" X 20" X 1" PRE-FILTERS, SIXTEEN 20" X 20" X 10.5" POCKET-TYPE FILTERS, EIGHT 24" X 24" X 11.5" AIRGUARD HEPA FILTERS (#NC2000-500), AND ONE 3 H.P. EXHAUST FAN.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH FILTER MEDIA AS DESCRIBED ON THIS PERMIT.  
[RULE 1303(a)(1)-BACT]
4. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE PRIMARY EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 1.0 INCHES OF WATER.  
[RULE 1303(a)(1)-BACT]
5. A GAUGE SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE HEPA FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 2.0 INCHES OF WATER.  
[RULE 1303(a)(1)-BACT]
6. THE TOTAL QUANTITY OF VOC EMISSIONS FROM THIS SPRAY BOOTH SHALL NOT EXCEED 28 POUNDS PER DAY.  
[RULE 1303(a)(1)-BACT]
7. THE HEPA FILTERS USED IN THIS EQUIPMENT SHALL BE INDIVIDUALLY DOP (OR EQUIVALENT) TESTED WITH 0.3 MICRON PARTICLES AND CERTIFIED TO HAVE AN EFFICIENCY OF NOT LESS THAN 99.97%.  
[RULE 1303(a)(1)-BACT, 1469.1]

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

8. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS OF RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY DAILY VOC EMISSIONS IN POUNDS, THE VOC CONTENT OF EACH MATERIAL, AS APPLIED (INCLUDING WATER AND EXEMPT COMPOUNDS), AND THE CHROMIUM SPRAYED IN POUNDS. ALL RECORDS SHALL BE PREPARED IN A FORMAT THAT IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 109, 1303(b)(2)-OFFSET]

### **Periodic Monitoring:**

9. THE OPERATOR SHALL PERFORM A WEEKLY INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN, OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
- A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA.
  - B. THE DATE, TIME, AND RESULTS OF THE INSPECTION; AND
  - C. THE DATE, TIME, AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
- [RULE 3004(a)(4)]
10. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE FILTER ONCE EVERY WEEK.  
[RULE 3004 (a)(4)]

### **Emissions and Requirements:**

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- VOC: RULE 1124, SEE APPENDIX B FOR EMISSION LIMITS
  - VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
  - VOC: RULE 109
  - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
  - PM: RULE 481
  - CR<sup>+6</sup>: RULE 1469.1

## FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING

### PERMIT TO OPERATE

Permit No. F50024  
A/N 377773

#### Equipment Description:

ALUMINUM ETCH LINE CONSISTING OF:

1. TANK NO. 2B, ALKALINE CLEAN TANK, SODIUM BORATE, 2'-0" W. X 15'-0" L. X 5'-0" H., STEAM HEATED.
2. TANK NO. 16, ALUMINUM ETCH TANK, SODIUM HYDROXIDE, 2'-0" W. X 15'-0" L. X 5'-0" H., STEAM HEATED.
3. TANK NO. 4B, DEOXIDIZER TANK, NITRIC ACID, 2'-0" W. X 15'-0" L. X 5'-0" H., UNHEATED.
4. ASSOCIATED RINSE TANKS.

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. TANK NO. 4B SHALL NOT BE HEATED.  
[RULE 1303(b)(2)-OFFSET, 1401]
4. TEMPERATURE GAUGES SHALL BE INSTALLED AND MAINTAINED ON THE HEATED TANKS TO MEASURE AND RECORD AUTOMATICALLY (CONTINUOUS) OR MANUALLY (ONCE EACH DAY) THE TEMPERATURE OF THE SOLUTIONS DURING OPERATION.  
[RULE 1303(b)(2)-OFFSET, 1401]
5. THE TEMPERATURE OF OPERATION THE TANKS SHALL NOT EXCEED THE FOLLOWING:

TANK	TEMPERATURE (DEGREES FAHRENHEIT)
-----	-----
2B	155
16	160

[RULE 1303(b)(2)-OFFSET, 1401]



## FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING

6. THE CONCENTRATION OF CHEMICALS IN THE TANKS SHALL NOT EXCEED THE FOLLOWING:

TANK(S)	CHEMICAL	WEIGHT PERCENT
-----	-----	-----
2B	SODIUM BORATE	4.5
16	SODIUM HYDROXIDE	8.5
4B	NITRIC ACID	21.0

[RULE 1303(b)(2)-OFFSET, 1401]

7. THE OWNER/OPERATOR SHALL MAINTAIN RECORDS OF CHEMICAL ADDITION PURSUANT TO CONDITION NO. 6.  
[RULE 1303(b)(2)-OFFSET, 1401]
8. WITH THE EXCEPTION OF SODIUM HYDROXIDE AND NITRIC ACID, MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN DISTRICT RULE 1401, AS AMENDED ON AUGUST 18, 2000.  
[RULE 1401]
9. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED AT THE FACILITY FOR FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.  
[RULE 1303(b)(2)-OFFSET, 1401]

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F54510  
A/N 377774**

#### **Equipment Description:**

ABRASIVE BLASTING SYSTEM CONSISTING OF:

1. CABINET, MODEL NO. 27F3-1, 3'-0" W. X 3'-0" L. X 3'-0" H.
2. BLASTING POT, 30 POUNDS CAPACITY
3. ONE NOZZLE WITH A MAXIMUM INSIDE DIAMETER OF 1/4" AND A MAXIMUM AIR PRESSURE OF 60 PSIA.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. AN IDENTIFICATION TAG OR NAMEPLATE SHALL BE DISPLAYED ON THE ABRASIVE BLASTING CABINET TO SHOW MANUFACTURER MODEL NO. AND SERIAL NO. THE TAG(S) OR NAMEPLATE(S) SHALL BE ISSUED BY THE MANUFACTURER(S) AND SHALL BE ADHERED TO EACH EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.  
[RULE 1303(a)(1)-BACT]
4. THE ABRASIVE BLASTING EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO A DUST COLLECTOR THAT IS IN FULL USE.  
[RULE 1303(a)(1)-BACT]
5. A SHUTDOWN INTERLOCK SYSTEM SHALL BE INSTALLED AND MAINTAINED TO AUTOMATICALLY SHUT DOWN THE ABRASIVE BLASTING CABINET WHEN THE DUST COLLECTOR IS NOT OPERATING.  
[RULE 1303(a)(1)-BACT]
6. EMISSIONS FROM THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS SHOWN IN RULE 1401 TABLE 1, AS AMENDED ON AUGUST 18, 2000.  
[RULE 1401]
7. ALL RECORDS REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.  
[RULE 1303(A)(1)-BACT]

### **Periodic Monitoring:**

8. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS.

IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST, AND EITHER:

- A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
- B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATIONS RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

### **Emissions and Requirements:**

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 1140, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F54508  
A/N 377775**

#### **Equipment Description:**

ABRASIVE BLASTING SYSTEM CONSISTING OF:

1. ABRASIVE BLASTING ROOM, WALK-IN, MODEL NO. 7X18.6X7, 7'-6" W. X 18'-6" L. X 7'-0" H.
2. BLASTING POT, 1,543 POUNDS CAPACITY
3. ONE NOZZLE WITH A MAXIMUM INSIDE DIAMETER OF 1/2" AND A MAXIMUM AIR PRESSURE OF 60 PSIA.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. AN IDENTIFICATION TAG OR NAMEPLATE SHALL BE DISPLAYED ON THE ABRASIVE BLASTING ROOM TO SHOW MANUFACTURER MODEL NO. AND SERIAL NO. THE TAG(S) OR NAMEPLATE(S) SHALL BE ISSUED BY THE MANUFACTURER(S) AND SHALL BE ADHERED TO EACH EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.  
[RULE 1303(a)(1)-BACT]
4. THE ABRASIVE BLASTING EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO A DUST COLLECTOR THAT IS IN FULL USE.  
[RULE 1303(a)(1)-BACT]
5. A SHUTDOWN INTERLOCK SYSTEM SHALL BE INSTALLED AND MAINTAINED TO AUTOMATICALLY SHUT DOWN THE ABRASIVE BLASTING EQUIPMENT WHEN THE DUST COLLECTOR IS NOT OPERATING.  
[RULE 1303(a)(1)-BACT]
6. EMISSIONS FROM THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS SHOWN IN RULE 1401 TABLE 1, AS AMENDED ON AUGUST 18, 2000.  
[RULE 1401]
7. ALL RECORDS REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.  
[RULE 1303(A)(1)-BACT]

### **Periodic Monitoring:**

8. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS.

IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST, AND EITHER:

- A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
- B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATIONS RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

### **Emissions and Requirements:**

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 1140, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F54511  
A/N 377777**

#### **Equipment Description:**

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. BAGHOUSE, UNITED AIR SPECIALISTS., MODEL NO. FFBW-DC-U, SERIAL NO. 44-1325, WITH 6 BAGS, EACH 1'-1 $\frac{3}{4}$ " DIA. X 1'-6" L., WITH TOTAL FILTER AREA OF 1,650 SQ. FT. AND A PULSE JET CLEANING SYSTEM.
2. EXHAUST SYSTEM WITH A 5-H.P. BLOWER VENTING TWO ABRASIVE BLASTING CABINETS AND ONE WALK-IN ABRASIVE BLASTING ROOM.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. AN IDENTIFICATION TAG OR NAMEPLATE SHALL BE DISPLAYED ON THE DUST COLLECTOR TO SHOW MANUFACTURER MODEL NO. AND SERIAL NO. THE TAG(S) OR NAMEPLATE(S) SHALL BE ISSUED BY THE MANUFACTURER(S) AND SHALL BE ADHERED TO EACH EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.  
[RULE 1303(a)(1)-BACT]
4. THIS DUST COLLECTOR SHALL BE IN FULL USE WHENEVER THE EQUIPMENT THAT IT IS VENTING IS IN OPERATION.  
[RULE 1303(a)(1)-BACT]
5. A MECHANICAL GAUGE SHALL BE MAINTAINED SO AS TO INDICATE, IN INCHES WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE BAGS.  
[RULE 1303(a)(1)-BACT]
6. DUST COLLECTED IN THIS EQUIPMENT SHALL BE DISPOSED INTO ENCLOSED CONTAINERS.  
[RULE 1303(a)(1)-BACT]

#### **Periodic Monitoring:**

7. THE OPERATOR SHALL DETERMINE AND RECORD THE PRESSURE DROP ACROSS THE BAGS

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

ONCE EVERY WEEK.  
[RULE 3004 (a)(4)]

8. THE OPERATOR SHALL PERFORM AN ANNUAL INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
  - A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA;
  - B. THE DATE, TIME AND RESULTS OF THE INSPECTION; AND
  - C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.[RULE 3004 (a)(4)]
  
9. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON A QUARTERLY BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE QUARTERLY PERIOD. THE ROUTINE QUARTERLY INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED, THE OPERATOR SHALL TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT.  
THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:
  - A. STACK OR EMISSION POINT IDENTIFICATION;
  - B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS; AND
  - C. DATE AND TIME VISIBLE EMISSION WAS ABATED.[RULE 3004 (a)(4)]

### **Emissions And Requirements:**

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:  
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F50028  
A/N 377778**

#### **Equipment Description:**

##### **PASSIVATION LINE CONSISTING OF:**

1. TANK NO. 1, DEGREASING TANK, DW909-SODIUM BORATE, 1'-11" W. X 3'-4" L. X 4'-9" H., STEAM HEATED.
2. TANK NO. 53, ELECTROPOLISH TANK, PHOSPHORIC ACID AND SULFURIC ACID, 3'-0" W. X 8'-0" L. X 4'-6" H., STEAM HEATED, WITH A 6 VOLT, 800 AMPERE RECTIFIER.
3. TANK NO. 36, ELECTROCLEAM TANK, SODIUM BORATE, 2'-6" W. X 3'-0" L. X 4'-0" H., STEAM HEATED.
4. TANK NO. 38, HCL DESMUT TANK, HYDROCHLORIC ACID, 1'-6" W. X 2'-0" L. X 2'-6" H., UNHEATED.
5. TANK NO. 51C, TYPE 7 PASSIVATE TANK, NITRIC ACID, 1'-6" W. X 2'-0" L. X 2'-6" H., STEAM HEATED.
6. TANK NO. 51, TYPE 8 PASSIVATE TANK, NITRIC ACID, 1'-6" W. X 2'-0" L. X 2'-6" H., STEAM HEATED.
7. TANK NO. 51A, TYPE 2 PASSIVATE TANK, NITRIC ACID AND SODIUM DICHROMATE, 1'-6" W. X 2'-0" L. X 2'-6" H., STEAM HEATED.
8. TANK NO. 51B, TYPE 6 PASSIVATE TANK, NITRIC ACID, 1'-6" W. X 2'-0" L. X 2'-6" H., UNHEATED.
9. TANK NO. 55, NITRIC/HYDROFLUORIC ACID TANK, NITRIC ACID AND HYDROFLUORIC ACID, 1'-6" W. X 2'-0" L. X 2'-6" H., UNHEATED.
10. TANK NO. 44, NITAL ETCH TANK, HYDROCHLORIC ACID, 1'-6" W. X 2'-0" L. X 2'-6" H., UNHEATED.
11. TANK NO. 42, ALKALINE CLEANER TANK, SODIUM METASILICATE, 1'-6" W. X 2'-0" L. X 2'-6" H., STEAM HEATED.
12. TANK NO. 40, NITAL ETCH TANK, NITRIC ACID, 1'-6" W. X 2'-0" L. X 2'-6" H., UNHEATED.
13. TANK NO. 56, CHROMATE RINSE, 1'-6" W. X 2'-0" L. X 2'-6" H., STEAM HEATED
14. ASSOCIATED RINSE TANKS.



## FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING

### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. TANK NOS. 38, 51B, 55, 44 AND 40 SHALL NOT BE HEATED.  
[RULE 1303(b)(2)-OFFSET, 1401]
4. TEMPERATURE GAUGES SHALL BE INSTALLED AND MAINTAINED ON THE HEATED TANKS TO MEASURE AND RECORD THE TEMPERATURE, AUTOMATICALLY (CONTINUOUS) OR MANUALLY (ONCE EACH DAY), OF THE SOLUTIONS DURING OPERATION.  
[RULE 1303(b)(2)-OFFSET, 1401]
5. THE TEMPERATURE OF OPERATION THE TANKS SHALL NOT EXCEED THE FOLLOWING:

TANK(S)	TEMPERATURE (DEGREES FAHRENHEIT)
-----	-----
1	175
53, 56	160
36, 42	190
51C, 51	140
51A	130

[RULE 1303(b)(2)-OFFSET, 1401]

6. THE CONCENTRATION OF CHEMICALS USED IN TANKS SHALL NOT EXCEED THE FOLLOWING:

TANK(S)	CHEMICAL	WEIGHT PERCENT
-----	-----	-----
1	SODIUM BORATE	21.5
36	SODIUM BORATE	7.2
38	HYDROCHLORIC ACID	28.3
44	HYDROCHLORIC ACID	8
53	PHOSPHORIC ACID	74
53	SULFURIC ACID	4.5
51, 51C	NITRIC ACID	30.5
51A	NITRIC ACID	26.2
51A	SODIUM DICHROMATE	2.7
51B	NITRIC ACID	47
55	NITRIC ACID	59.5
55	HYDROFLUORIC ACID	5.5
56	DICHROMATE ACID	6.5
42	SODIUM METASILICATE	6
40	NITRIC ACID	7.5

[RULE 1303(b)(2)-OFFSET, 1401]

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

7. THE OWNER/OPERATOR SHALL MAINTAIN RECORDS OF EACH ADDITION OF CHEMICALS PURSUANT TO CONDITION NO. 6.  
[RULE 1303(b)(2)-OFFSET, 1401]
8. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN DISTRICT RULE 1401, AS AMENDED ON AUGUST 18, 2000, EXCEPT FOR THE CHEMICALS LISTED IN CONDITION NO. 6.  
[RULE 1401]
9. IN THE EVENT OF VISIBLE NOX EMISSIONS FROM TYPE 7 PASSIVATION TANK NO. 51C, TYPE 8 PASSIVATION TANK NO. 51, TYPE 2 PASSIVATION TANK NO. 51A, TYPE 6 PASSIVATION TANK NO. 51B, NITRIC/HYDROFLUORIC ACID TANK NO. 55, AND NITRIC ACID TANK NO. 40, AN AIR POLLUTION CONTROL SYSTEM SHALL BE INSTALLED TO SUFFICIENTLY REDUCE THE EMISSIONS. THE AIR POLLUTION CONTROL SYSTEM CAN INCLUDE, BUT NOT BE LIMITED TO, NOX REDUCING AGENTS AND A NOX SCRUBBER.  
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]
10. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED AT THE FACILITY FOR FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.  
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET, 1401]

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F50027  
A/N 377779**

#### **Equipment Description:**

SULFURIC ACID ANODIZING LINE CONSISTING OF:

1. TANK NO. 2A, ALKALINE CLEANER TANK, SODIUM BORATE, 2'-0" W. X 16'-0" L. X 5'-0" H., STEAM HEATED.
2. TANK NO. 16B, ALKALINE ETCH TANK, SODIUM HYDROXIDE, 2'-0" W. X 16'-0" L. X 5'-0" H., STEAM HEATED.
3. TANK NO. 4A, DEOXIDIZER TANK, NITRIC ACID, 2'-0" W. X 16'-0" L. X 5'-0" H., UNHEATED.
4. TANK NO. 7A, SULFURIC/BORIC ACID ANODIZING TANK, SULFURIC AND BORIC ACIDS, 3'-3" W. X 16'-0" L. X 5'-0" H., UNHEATED, WITH A 6 VOLT, 2000 AMPERE RECTIFIER.
5. TANK NO. 7, SULFURIC ACID ANODIZING TANK, SULFURIC ACID, 3'-10" W. X 16'-0" L. X 5'-0" H., UNHEATED, WITH A 6 VOLT, 2000 AMPERE RECTIFIER.
6. TANK NO. 15A, ANODINE 1500 TANK, CHROMATE SOLUTION, 2'-0" W. X 16'-0" L. X 5'-0" H., STEAM HEATED.
7. TANK NO. 15, CHEM FILM TANK, IRRIDITE, 2'-0" W. X 16'-0" L. X 5'-0" H., UNHEATED.
8. TANK NO. 11B, SODIUM DICHROMATE SEALER TANK, SODIUM DICHROMATE, 2'-0" W. X 16'-0" L. X 5'-0" H., STEAM HEATED.
9. TANK NO. 11A, DILUTE CHROMATE SEALER TANK, SODIUM DICHROMATE, 2'-0" W. X 16'-0" L. X 5'-0" H., STEAM HEATED.
10. TANK NO. 9B, ALODINE 1200 TANK/RINSE TANK, CHROMATE SOLUTION, 2'-0" W. X 16'-0" L. X 5'-0" H., UNHEATED.
11. TANK NO. C1, NICKEL ACETATE SEALER TANK, NICKEL ACETATE, 1'-6" W. X 3'-2" L. X 3'-6" H., STEAM HEATED.
12. TANK NO. C2, DILUTE SODIUM DICHROMATE TANK, SODIUM DICHROMATE AND POTASSIUM, 1'-6" W. X 3'-2" L. X 3'-6" H., STEAM HEATED.
13. TANK NO. C3, SODIUM DICHROMATE TANK, SODIUM DICHROMATE, 1'-6" W. X 3'-2" L. X 3'-6" H., UNHEATED.
14. TANK NO. C4, MAGNESIUM CLEANER TANK, DICHROMIC ACID, 1'-6" W. X 3'-2" L. X 3'-6" H., STEAM HEATED.

## FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING

15. TANK NO. C5, HYDROFLUORIC ACID TANK, HYDROFLUORIC ACID, 1'-6" W. X 3'-2" L. X 3'-6" H., UNHEATED.
16. TANK NO. C9, SODIUM DICHROMATE TANK, SODIUM DICHROMATE, 2'-2" W. X 3'-10" L. X 3'-0" H., STEAM HEATED.
17. ASSOCIATED RINSE TANKS.

### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THE CONCENTRATION OF CHEMICALS USED IN THE PROCESS TANKS SHALL NOT EXCEED THE FOLLOWING:

TANK NO.	CHEMICAL	WEIGHT PERCENT
-----	-----	-----
2A	SODIUM BORATE	4.5
16B	SODIUM HYDROXIDE	8.5
4A	NITRIC ACID	21
7A	SULFURIC ACID	5.2
7A	BORIC ACID	1.2
7	SULFURIC ACID	20.5
15A	CHROMATE MIXTURE	1.5
15	CHROMATE MIXTURE	1
11B	CHROMATE SOLUTION	7
11A	SODIUM DICHROMATE	0.02
C1	NICKEL ACETATE	1
C2, C3	SODIUM CHROMATE	7
C2	POTASSIUM	1
C4	DICHROMIC ACID	8.5
C5	HYDROFLUORIC ACID	21.5
C9	SODIUM DICHROMATE	15
9B	CHROMATE MIXTURE	2.3

[RULE 1303(b)(2)-OFFSET, 1401]

4. THE OWNER/OPERATOR SHALL RECORD ADDITION OF CHEMICALS TO THE TANKS PURSUANT TO CONDITION NO. 3.  
[RULE 1303(b)(2)-OFFSET, 1401]
5. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN DISTRICT RULE 1401, AS AMENDED ON AUGUST 18, 2000, EXCEPT FOR THE

## FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING

CHEMICALS LISTED IN CONDITION NO. 3.

[RULE 1401]

6. TANK 4A SHALL BE COVERED WHEN NOT IN USE SO AS TO ENSURE THAT THE SURFACE OF THE LIQUID IS NOT EXPOSED TO THE ATMOSPHERE.  
[RULE 1303(b)(2)-OFFSET, 1401]
7. TANKS CONTAINING NITRIC ACID SHALL COMPLY WITH THE VISIBLE EMISSION STANDARDS OF DISTRICT RULE 401.  
[RULE 1401, 401]
8. TANK NOS. 4A, 7, 7A, 15, 9B, C3 AND C5 SHALL NOT BE HEATED.  
[RULE 1303(b)(2)-OFFSET, 1401]
9. TANK NOS. 15, 11A, 11B, C2, C3, C4 AND C9 SHALL NOT BE SPARGED.  
[RULE 1303(b)(2)-OFFSET, 1401]
10. TEMPERATURE GAUGES SHALL BE INSTALLED AND MAINTAINED ON THE HEATED TANKS TO MEASURE AND RECORD THE TEMPERATURE, AUTOMATICALLY (CONTINUOUS) OR MANUALLY (ONCE EACH DAY), OF THE SOLUTIONS DURING OPERATION.  
[RULE 1303(b)(2)-OFFSET, 1401]
11. THE TEMPERATURE OF THE SOLUTIONS IN THE TANKS SHALL NOT EXCEED THE FOLLOWING:

TANK(S) NO.	TEMPERATURE IN DEGREES FAHRENHEIT
2A	155
11B	212
11A	205
C1	210
C2	205
C4	190
C9	200
16B, 15A	160

[RULE 1303(b)(2)-OFFSET, 1401]
12. IN THE EVENT OF VISIBLE NOX EMISSIONS FROM THE TANKS CONTAINING NITRIC ACID, AN AIR POLLUTION CONTROL SYSTEM SHALL BE INSTALLED TO SUFFICIENTLY REDUCE THE EMISSIONS. THE AIR POLLUTION CONTROL SYSTEM CAN INCLUDE, BUT NOT BE LIMITED TO, NOX REDUCING AGENTS AND A NOX SCRUBBER.  
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]
13. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED AT THE FACILITY FOR FIVE YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.  
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET, 1401]

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. F54509  
A/N 380559**

#### **Equipment Description:**

ABRASIVE BLASTING SYSTEM CONSISTING OF:

1. CABINET, MODEL NO. 27F3-4, 3'-0" W. X 3'-0" L. X 3'-0" H.
2. BLASTING POT, 30 POUNDS CAPACITY
3. ONE NOZZLE WITH A MAXIMUM INSIDE DIAMETER OF 1/4" AND A MAXIMUM AIR PRESSURE OF 60 PSIA.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. AN IDENTIFICATION TAG OR NAMEPLATE SHALL BE DISPLAYED ON THE ABRASIVE BLASTING CABINET TO SHOW MANUFACTURER MODEL NO. AND SERIAL NO. THE TAG(S) OR NAMEPLATE(S) SHALL BE ISSUED BY THE MANUFACTURER(S) AND SHALL BE ADHERED TO EACH EQUIPMENT IN A PERMANENT AND CONSPICUOUS POSITION.  
[RULE 1303(a)(1)-BACT]
4. THE ABRASIVE BLASTING EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO A DUST COLLECTOR THAT IS IN FULL USE.  
[RULE 1303(a)(1)-BACT]
5. A SHUTDOWN INTERLOCK SYSTEM SHALL BE INSTALLED AND MAINTAINED TO AUTOMATICALLY SHUT DOWN THE ABRASIVE BLASTING CABINET WHEN THE DUST COLLECTOR IS NOT OPERATING.  
[RULE 1303(a)(1)-BACT]
6. EMISSIONS FROM THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS SHOWN IN RULE 1401 TABLE 1, AS AMENDED ON AUGUST 18, 2000.  
[RULE 1401]
7. ALL RECORDS REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE

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AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.  
[RULE 1303(a)(1)-BACT, 1401]

### **Periodic Monitoring:**

8. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS.

IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST, AND EITHER:

- A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
- B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATIONS RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

### **Emissions and Requirements:**

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 1140, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No.F45325  
A/N 388830**

#### **Equipment Description:**

INTERNAL COMBUSTION ENGINE, DIESEL, JOHN DEERE, MODEL NO. 4045T, 4-CYLINDER, 100 B.H.P, TURBOCHARGED, DRIVING A 75 KW EMERGENCY ELECTRIC GENERATOR.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY CALENDAR YEAR.  
[RULE 1110.2, 1304(a)(4)]
4. THIS ENGINE SHALL BE OPERATED LESS THAN 50 HOURS IN ANY CALENDAR YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1470]
5. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, 1304(a)(4), 1470]
6. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION AND THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 1110.2, 1304(a)(4), 1470]
7. IN ADDITION TO MAINTENANCE AND TESTING OF THIS ENGINE, THIS ENGINE SHALL ONLY OPERATE DURING EMERGENCIES RESULTING IN AN INTERRUPTION OF SERVICE OF THE PRIMARY POWER SUPPLY OR DURING STAGE II OR III ELECTRICAL EMERGENCY DECLARED BY THE CALIFORNIA INDEPENDENT SYSTEM OPERATOR.  
[RULE 1304(a)(4), 1470]



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### **Emissions and Requirements:**

8.        THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM:      RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM:      RULE 1470

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### **PERMIT TO OPERATE**

**Permit No. F75180  
A/N 417562**

#### **Equipment Description:**

COGENERATION SYSTEM CONSISTING OF:

1. INTERNAL COMBUSTION ENGINE, WAUKESHA, MODEL NO. F11GSI, NATURAL GAS FUELED, RICH BURN, FOUR CYCLE, SIX CYLINDERS, TURBOCHARGED, AFTERCOOLED, 240 BHP WITH A FUEL/AIR RATIO CONTROLLER, MIRATECH, MODEL NO. MEC-2001-1LLP, DRIVING A 178 KW ELECTRIC GENERATOR.
2. A NON-SELECTIVE CATALYTIC CONVERTER, MIRATECH, MODEL NO. MBA-13-05-C2.
3. WASTE HEAT RECOVERY SYSTEM

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS ENGINE SHALL ONLY USE NATURAL GAS AS FUEL.  
[RULE 1303(a)(1)-BACT]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1303(a)(1)-BACT]
5. AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER SHALL BE INSTALLED, MAINTAINED AND KEPT IN PROPER OPERATING CONDITION AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.  
[RULE 1303(a)(1)-BACT]
6. THE OPERATOR SHALL OPERATE AND MAINTAIN THIS EQUIPMENT ACCORDING TO THE FOLLOWING REQUIREMENTS:

THE OXYGEN CONCENTRATION AT THE OUTLET OF THE ENGINE SHALL NOT EXCEED 0.3 PERCENT.

THE OPERATOR SHALL OPERATE AND MAINTAIN AN OXYGEN MEASURING AND RECORDING

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SYSTEM TO CONTINUOUSLY MEASURE AND RECORD THE OXYGEN CONCENTRATION AT THE OUTLET OF THE ENGINE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. THE OXYGEN INDICATING AND RECORDING SYSTEM SHALL BE IN OPERATION WHENEVER THE ENGINE IS IN OPERATION.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN AN OXYGEN CONCENTRATION OF MORE THAN 0.3 PERCENT OCCURS DURING OPERATION OF THE ENGINE. THE OPERATOR SHALL REVIEW THE RECORDS OF THE OXYGEN MEASUREMENTS ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

WHENEVER A DEVIATION OCCURS, THE OPERATOR SHALL INSPECT THIS EQUIPMENT TO IDENTIFY THE CAUSE OF SUCH A DEVIATION, TAKE IMMEDIATE CORRECTIVE ACTION TO MAINTAIN THE OXYGEN CONCENTRATION AT THE OUTLET OF THE ENGINE AT OR BELOW 0.3 PERCENT, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT. THE REPORT SHALL INCLUDE THE TOTAL OPERATING TIME OF THIS EQUIPMENT AND THE TOTAL ACCUMULATED DURATION OF ALL DEVIATIONS FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL INSPECT AND MAINTAIN ALL COMPONENTS OF THIS EQUIPMENT ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS.  
[RULE 1303(a)(1)-BACT, 40CFR Part 64]

7. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE TO ACCURATELY INDICATE THE TEMPERATURE AT THE INLET AND OUTLET OF THE CATALYST. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED.  
[RULE 1303(a)(1)-BACT]
8. THE OPERATOR SHALL MAINTAIN A MONTHLY ENGINE OPERATING LOG THAT INDICATES:
  - A. TOTAL HOURS OF OPERATION.
  - B. TYPE OF FUEL USED.

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- C. FUEL CONSUMPTION (CUBIC FEET OF GAS).  
D. CUMULATIVE HOURS OF OPERATION SINCE THE LAST SOURCE TEST.  
[RULE 1110.2]
9. THE VOC EMISSIONS FROM THIS EQUIPMENT SHALL BE CALCULATED USING THE EMISSION FACTOR OF 0.0793 LBS/HR (0.15 GRAMS/BHP-HR).  
[RULE 1303(b)(2)-OFFSET]
10. THE ENGINE COMBUSTION EMISSIONS SHALL NOT EXCEED THE FOLLOWING LIMITS IN PARTS PER MILLION BY VOLUME (PPMV) ON A DRY BASIS (CORRECTED TO 15 PERCENT OXYGEN) EXCEPT DURING START-UPS AND SHUTDOWNS, WHICH SHALL NOT EXCEED 10 MINUTES EACH.
- |                                  |                             |
|----------------------------------|-----------------------------|
| VOLATILE ORGANIC COMPOUNDS (VOC) | 29 PPMV (0.15 GRAMS/BHP-HR) |
| NITROGEN OXIDES (NOX)            | 10 PPMV (0.15 GRAMS/BHP-HR) |
| CARBON MONOXIDE (CO)             | 68 PPMV (0.60 GRAMS/BHP-HR) |
- [RULE 1303(a)(1)-BACT]
11. THE OPERATOR SHALL REPLACE THE THREE-WAY CATALYST(S) EVERY YEAR UNLESS THE OPERATOR CAN DEMONSTRATE TO THE SATISFACTION OF THE EXECUTIVE OFFICER THAT THE ENGINES CAN CONTINUE TO REMAIN IN COMPLIANCE WITH THE EMISSION LIMITS SPECIFIED IN CONDITION NO. 10.  
[RULE 1303(a)(1)-BACT]
12. AT LEAST ONCE EVERY THREE YEARS, THE OPERATOR OF THIS EQUIPMENT SHALL CONDUCT A SOURCE TEST TO DETERMINE EMISSIONS OF NOX, VOC AND CO IN PPMV @ 15% O<sub>2</sub> AT THE OUTLET OF THE NON-SELECTIVE CATALYTIC CONVERTER.  
[RULE 1110.2, 1303(a)(1)-BACT]
- Emissions and Requirements:**
13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- |      |  |
|------|--|
| PM:  | RULE 404, SEE APPENDIX B FOR EMISSION LIMITS |
| VOC: | 250 PPMV, RULE 1110.2                        |
| VOC: | 29 PPMV, RULE 1303(a)(1)-BACT                |
| NOx: | 45 PPMV, RULE 1110.2                         |
| NOx: | 10 PPMV, RULE 1303(a)(1)-BACT                |
| CO:  | 2000 PPMV, RULE 1110.2                       |
| CO:  | 68 PPMV, RULE 1303(a)(1)-BACT                |

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO OPERATE**

**Permit No. GXXXXX  
A/N 500682**

#### **Equipment Description:**

TITANIUM ANODIZING LINE CONSISTING OF:

1. TANK, NO. 100, ANODIZING, POTASSIUM HYDROXIDE, RECTIFIED, AND ELECTRICALLY HEATED.
2. ASSOCIATED RINSE AND DRAG-OUT TANKS.

#### **Conditions:**

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS PERMIT IS SUBJECT TO THE FOLLOWING REQUIREMENTS:
  - A. ALL TANKS SHALL BE CLEARLY IDENTIFIED AND LABELED WITH APPROPRIATE TANK NUMBERS AS DESIGNATED IN THE EQUIPMENT DESCRIPTION. THE IDENTIFICATION AND/OR LABELING OF EACH TANK SHALL BE DIRECTLY AFFIXED TO EACH TANK AND SHALL BE CLEARLY VISIBLE AND LEGIBLE.
  - B. TANKS IN THIS LINE SHALL ONLY CONTAIN THE CHEMICALS AND COMPOUNDS SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION OF THIS PERMIT.
  - C. AIR SPARGING, RECTIFICATION, AND/OR HEATING SHALL NOT BE CONDUCTED EXCEPT IN TANKS WHERE THESE OPERATIONS ARE SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION. DISCONTINUATION OF SUCH OPERATIONS SHALL NOT CONSTITUTE A MODIFICATION FOR PERMITTING PURPOSES.
  - D. THE SURFACE OF THE SOLUTION IN TANK NO. 100 SHALL BE KEPT PERMANENTLY COVERED WITH FLOATING POLYBALLS.
  - E. THE TANK SHALL BE KEPT COVERED WHEN NOT IN USE.

[RULE 1303(b)(2)-OFFSET, 1401]

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4. THE ANODIZING TANK NO. 100 SHALL BE EQUIPPED WITH A NON-RESETTABLE AMPERE-HOUR METER THAT OPERATES ON THE ELECTRICAL LINE AND MEASURES THE AMOUNT OF ELECTRICAL CURRENT APPLIED TO THE TANK. THE METER SHALL BE MOUNTED IN A LOCATION SUCH THAT IT IS EASILY ACCESSIBLE FOR MAINTENANCE AND THE TOTALIZING DISPLAY IS EASILY READABLE.  
[RULE 1401]
5. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN DISTRICT RULE 1401, TABLE 1 WITH AN EFFECTIVE DATE OF MARCH 7, 2008 OR EARLIER, EXCEPT FOR THE CHEMICALS LISTED IN CONDITION NO. 6.  
[RULE 1401]
6. THE PROCESS TANKS IN THIS LINE SHALL BE OPERATED AT OR BELOW THE PARAMETER LIMITS INDICATED IN THE FOLLOWING TABLE:

TANK NO.	CHEMICAL	MAXIMUM CHEMICAL CONCENTRATION PERCENT BY WEIGHT (WT%)	MAXIMUM ANNUAL AMPERE-HOURS (CALENDAR YEAR)	MAXIMUM OPERATING TEMP. (DEGREES FAHRENHEIT)	MAXIMUM SURFACE AREA (SQUARE FEET PER TANK)
100	POTASSIUM HYDROXIDE	12.0	975,800	115	28

FOR THE PURPOSE OF THIS CONDITION, CONCENTRATION MEANS ANHYDROUS CONCENTRATION (NOT INCLUDING WATER OR WATER OF HYDRATION).  
[RULE 1303(b)(2)-OFFSET, 1401, 401]

7. A LOG CONCERNING THE OPERATION OF THIS EQUIPMENT SHALL BE KEPT ON FILE FOR A MINIMUM OF FIVE YEARS. THE PAST TWO YEARS' RECORDS SHALL BE KEPT ON SITE AND SHALL BE MADE AVAILABLE UPON REQUEST OF DISTRICT PERSONNEL. THIS LOG SHALL CONTAIN THE FOLLOWING INFORMATION:
  - A) AT LEAST ONCE PER MONTH, THE AMPERE-HOUR READINGS FROM EACH RECTIFIER CURRENT METER, AND THE CUMULATIVE AMPERE-HOURS APPLIED TO EACH RECTIFIED TANK IN THE PRESENT CALENDAR YEAR.
  - B) THE CONCENTRATION, IN PERCENT BY WEIGHT, OF COMPOUNDS LISTED IN CONDITION NO. 6 OF THIS PERMIT, AS DETERMINED EACH MONTH BY CALCULATION FROM REPLENISHMENT RECORDS OR LABORATORY QUANTITATIVE ANALYSIS.
  - C) MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL THE MATERIALS CHARGED TO EACH CHEMICAL PROCESS TANK AT THIS FACILITY.  
[RULE 1303(b)(2)-OFFSET, 1401]

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **PERMIT TO CONSTRUCT**

**A/N 454985  
Granted as of  
September 22, 2006**

#### **Equipment Description:**

SULFURIC ACID ANODIZING LINE CONSISTING OF:

1. TANK NO. 2A, ALKALINE CLEANING, SODIUM BORATE, HEATED, WITH MECHANICAL AGITATION.
2. TANK NO. 16B, ALKALINE ETCHING, SODIUM HYDROXIDE, HEATED, WITH MECHANICAL AGITATION.
3. TANK NO. 4A, DEOXIDIZING, NITRIC ACID, IRON OXIDE BUFFER, UNHEATED, WITH AIR SPARGING.
4. TANK NO. 17, RINSING, SODIUM BICARBONATE, UNHEATED, WITH AIR SPARGING.
5. TANK NO. 7A, ANODIZING, SULFURIC ACID, BORIC ACID, RECTIFIED, UNHEATED, WITH AIR SPARGING.
6. TANK NO. 7, ANODIZING, SULFURIC ACID, RECTIFIED, UNHEATED, WITH AIR SPARGING.
7. TANK NO. 15A, CHEM FILM, ALODINE/IRRIDITE(CHROMATED SOLUTIONS), HEATED, WITH MECHANICAL AGITATION.
8. TANK NO. 15, CHEM FILM, ALODINE/IRRIDITE(CHROMATED SOLUTIONS), UNHEATED, WITH MECHANICAL AGITATION.
9. TANK NO. 11B, SEALING, SODIUM DICHROMATE, HEATED, WITH MECHANICAL AGITATION.
10. TANK NO. 11A, SEALING, DILUTE SODIUM DICHROMATE, HEATED, WITH MECHANICAL AGITATION.
11. TANK NO. C1, SEALING, NICKEL ACETATE, HEATED, WITH MECHANICAL AGITATION.
12. TANK NO. C2, SEALING, POTASSIUM DICHROMATE, UNHEATED, WITH MECHANICAL AGITATION.
13. TANK NO. C3, SEALING, SODIUM DICHROMATE, UNHEATED, WITH MECHANICAL AGITATION.
14. TANK NO. C4, CLEANING, SODIUM BORATE, HEATED, WITH MECHANICAL AGITATION.
15. TANK NO. C5, CLEANING/PICKLING, HYDROFLUORIC ACID, UNHEATED, WITH MECHANICAL AGITATION.
16. TANK NO. C9, PICKLING, SODIUM DICHROMATE, HEATED, WITH MECHANICAL AGITATION.
17. ASSOCIATED RINSE TANKS.

## FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING

### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.  
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.  
[RULE 204]
3. THIS PERMIT IS SUBJECT TO THE FOLLOWING REQUIREMENTS:
  - A. ALL TANKS SHALL BE CLEARLY IDENTIFIED AND LABELED WITH APPROPRIATE TANK NUMBERS AS DESIGNATED IN THE EQUIPMENT DESCRIPTION. THE IDENTIFICATION AND/OR LABELING OF EACH TANK SHALL BE DIRECTLY AFFIXED TO EACH TANK AND SHALL BE CLEARLY VISIBLE AND LEGIBLE.
  - B. TANKS IN THIS LINE SHALL ONLY CONTAIN THE CHEMICALS AND COMPOUNDS SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION OF THIS PERMIT.
  - C. AIR SPARGING, RECTIFICATION, AND/OR HEATING SHALL NOT BE CONDUCTED EXCEPT IN TANKS WHERE THESE OPERATIONS ARE SPECIFICALLY IDENTIFIED IN THE EQUIPMENT DESCRIPTION. DISCONTINUATION OF SUCH OPERATIONS SHALL NOT CONSTITUTE A MODIFICATION FOR PERMITTING PURPOSES.  
[RULE 1303(b)(2)-OFFSET, 1401]
4. WATER RINSE TANKS THAT CONTAIN CHROMATES, DICHROMATES, OR ANY OTHER COMPOUNDS CONTAINING HEXAVALENT CHROMIUM, SHALL NOT BE AIR SPARGED.  
[RULE 1401]
5. THE PROCESS TANKS IN THIS LINE SHALL BE OPERATED AT OR BELOW THE PARAMETER LIMITS INDICATED IN THE FOLLOWING TABLE:

TANK NO.	CHEMICAL	MAXIMUM CHEMICAL CONCENTRATION PERCENT BY WEIGHT (WT%)	MAXIMUM ANNUAL AMPERE-HOURS (CALENDAR YEAR)	MAXIMUM OPERATING TEMP. (DEGREES FAHRENHEIT)	MAXIMUM SURFACE AREA (SQUARE FEET PER TANK)
4A	NITRIC ACID	22.0	N/A	AMBIENT	48
7A	SULFURIC ACID	5.5	8,000,000	AMBIENT	78
7	SULFURIC ACID	21	8,000,000	AMBIENT	92
C5	HYDROFLUORIC ACID	22	N/A	AMBIENT	N/A

FOR THE PURPOSE OF THIS CONDITION, CONCENTRATION MEANS ANHYDROUS CONCENTRATION (NOT INCLUDING WATER OR WATER OF HYDRATION).  
[RULE 1303(b)(2)-OFFSET, 1401, 401]



## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

6. TANK NOS. 4A AND C5 SHALL BE COVERED WHEN NOT IN USE.  
[RULE 401, 1401]
7. TANKS CONTAINING NITRIC ACID AND HYDROFLUORIC ACID SHALL COMPLY WITH THE  
VISIBLE EMISSION STANDARDS OF RULE 401.  
[RULE 401]
8. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS  
IDENTIFIED IN RULE 1401, WITH AN EFFECTIVE DATE OF MARCH 4, 2005 OR EARLIER, EXCEPT  
THOSE SPECIFICALLY LISTED IN THE EQUIPMENT DESCRIPTION OF THIS PERMIT.  
[RULE 1401]
9. EACH PROCESS TANK LISTED BELOW SHALL BE EQUIPPED WITH A CONTINUOUS RECORDING,  
NON-RESETTABLE, AMPERE-HOUR METER THAT OPERATES ON THE ELECTRICAL LINES AND  
MEASURES THE AMOUNT OF ELECTRICAL CURRENT APPLIED TO THE TANK. A SEPARATE  
METER SHALL BE HARD-WIRED FOR EACH TANK. THE METERS SHALL BE MOUNTED IN A  
LOCATION SUCH THAT THEY ARE EASILY ACCESSIBLE FOR MAINTENANCE AND THE  
TOTALIZING DISPLAY IS EASILY READABLE. THE ABOVE CONDITION APPLIES TO THE  
FOLLOWING TANKS:
  - A. ANODIZING TANK NO. 7A
  - B. ANODIZING TANK NO. 7[RULE 1401]
10. A LOG CONCERNING THE OPERATION OF THIS EQUIPMENT SHALL BE KEPT ON FILE FOR A  
MINIMUM OF FIVE YEARS. THE PAST TWO YEARS' RECORDS SHALL BE KEPT ON SITE AND  
SHALL BE MADE AVAILABLE UPON REQUEST OF DISTRICT PERSONNEL. THIS LOG SHALL  
CONTAIN THE FOLLOWING INFORMATION:
  - B) AT LEAST ONCE PER MONTH, THE AMPERE-HOUR READINGS FROM EACH RECTIFIER  
CURRENT METER, AND THE CUMULATIVE AMPERE-HOURS APPLIED TO EACH  
RECTIFIED TANK IN THE PRESENT CALENDAR YEAR.
  - B) THE CONCENTRATION, IN PERCENT BY WEIGHT, OF COMPOUNDS LISTED IN  
CONDITION NO. 5 OF THIS PERMIT, AS DETERMINED EACH MONTH BY CALCULATION  
FROM REPLENISHMENT RECORDS OR LABORATORY QUANTITATIVE ANALYSIS.
  - C) MATERIAL SAFETY DATA SHEETS(MSDS) FOR ALL MATERIALS CHARGED TO EACH  
PROCESS TANK AT THIS FACILITY.  
[RULE 1303(b)(2)-OFFSET, 1401]

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **RULE 219 EQUIPMENT**

#### **Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

#### **Periodic Monitoring:**

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

FOR ARCHITECTURAL APPLICATIONS WHERE NO THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS SUPPLIED IN GRAMS PER LITER (g/l) OF MATERIALS FOR LOW-SOLIDS COATINGS, AND (c) VOC CONTENT AS SUPPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATINGS.

FOR OTHER ARCHITECTURAL APPLICATIONS WHERE THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS APPLIED IN GRAMS PER LITER (g/l) OF MATERIALS USED FOR LOW-SOLIDS COATINGS, AND (c) VOC CONTENT AS APPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATINGS.

[RULE 3004 (a)(4)]

#### **Emissions And Requirements:**

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **RULE 219 EQUIPMENT**

#### **Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

#### **Emissions And Requirements:**

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

## **FACILITY PERMIT TO OPERATE E.M.E. INC/ELECTRO MACHINE & ENGINEERING**

### **RULE 219 EQUIPMENT**

#### **Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, BOILER, > 400,000 BTU/HR BUT < 2 MMBTU/HR.

#### **Emissions And Requirements:**

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: 0.1 gr/scf, RULE 409  
NOx: 30 PPMV, RULE 1146.2  
CO: 400 PPMV, RULE 1146.2  
CO: 2000 PPMV, RULE 407